| | Thursday | Speaker | Title |
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| | , | session chair | Evolution |
| | | Santos | |
| 8:00 AM | IIIB | Bhattacharya | Endosymbiotic Gene Transfer and the Evolution of the First Photosynthetic Eukaryotes |
| 8:20 AM | IIIB | Blankenship | The Evolutionary Transition from Anoxygenic to Oxygenic Photosynthesis and How it Changed the Earth |
| 8:40 AM | IIIB | Cardon | Phylogenetic diversity and physiology of independently-evolved lineages of desert green algae |
| 9:00 AM | IIIB | Catling | Why O ₂ is required by complex life on habitable planets and its implications |
| 9:20 AM | IIIB | Dorit | In Vitro and In Vivo Evolution of E. coli RNaseP |
| 9:40 AM | IIIB | Fox | Ribosomal Protein Gene Clusters and Ribosome Evolution |
| 10:00 AM | break | | |
| 10:20 AM | IIIB | Gaucher | Temperature history of the bacterial domain of life based on molecular and geologic records. |
| 10:40 AM | IIIB | Knauth | AN ALTERNATIVE VIEW OF THE COURSE OF EVOLUTION WITH IMPLICATIONS FOR LIFE ELSEWHERE IN THE UNIVERSE |
| 11:00 AM | IIIB | Marcot | PHYLOGENETIC APPROACHES TO THE EVOLUTION OF COMPLEX ORGANISMS |
| 11:20 AM | IIIB | Miller | EPICONTINENTAL SEAS VERSUS OPEN-OCEAN SETTINGS: EXTINCTION AND DIVERSIFICATION IN TWO DIFFERENT WORLDS? |
| 11:40 AM | IIIB | Patzkowsky | GEOGRAPHIC VARIABILITY OF RECOVERY FROM THE LATE ORDOVICIAN MASS EXTINCTION |
| 12:00 PM | IIIB | Schultz | IMPACT AMBER: PLANT MATERIALS CAPTURED IN IMPACT- GENERATED GLASSES |
| 12:20 PM | IIIB | Summons | The Permian-Triassic Extinction Event: Was It an Impact-related Phenomenon or Something Closer to Home? |
| 12:40 PM | lunch | | |
| 1:00 PM | | | |
| 1:20 PM | | session chair | Extreme/Analog Environments |
| 1:40 PM | IIIC | Bebout | NITROGEN FIXATION IN MODERN MICROBIAL MATS. |
| 2:00 PM | IIIC | Blank | An Experimental Study of the Response of Microbes to Ballistic Impact |
| 2:20 PM | IIIC | Blum | The Arsenic Cycle in Searles Lake, California: An Arsenic-Rich, Salt- Saturated Soda Lake. |
| 2:40 PM | IIIC | Des Marais | Carbon biogeochemistry in sulfate-rich environments |
| 3:00 PM | | | |
| | IIIC | Farmer | Microbial Fossilization Processes in Alkaline Hot-springs, with Implications for Astrobiological Exploration of the early Earth and Mars |
| 3:20 PM | break | Farmer | Implications for Astrobiological Exploration of the early Earth and |
| 3:40 PM | break IIIC | Farmer Hoehler | Implications for Astrobiological Exploration of the early Earth and |
| 3:40 PM 4:00 PM | break IIIC IIIC | Hoehler Newell | Implications for Astrobiological Exploration of the early Earth and Mars Biological Energy Requirements as Constraints on Habitability Magnetotactic bacteria: When is magnetotaxis advantageous? |
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